

L. 32. 59 [sel.
e]

Rarities:

The incomparable Rarities in

S E C R E T
W R I T I N G,

Both as *Waters* as Cyphers,
explained and made familiar to the
meanest Capacity.

Tho. By which *Torrey*
Ministers of State may manage the
Intrigues of Court and grand Concerns
of Princes, the Ladies communicate
their Amours, and every ordinary person
(onely capable of legible Writing)
may order his private affairs with
all imaginable safety and secrecy.

*Published to promote the Publick, to delight
the Ingenious, and encourage the Industrious,
By G. B. Gent.*

L O N D O N:

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To the
R E A D E R.

I Think it fit to acquaint thee that several Cyphers and other Papers of Secret Writing which were many years since plunder'd from the Author of the following Tracts, came shortly after to my hands, and have lain long by me to little purpose ; for notwithstanding his Publication of the following Discourse thereof, my great pains to make some progress therein came to nothing untill he in his second Edition gave the Learner Directions how to proceed : Since then I have made out his methods, and thereby understand his ingenious Contrivements
of

of the Alphabets, and how he thereby Cyphers and Decyphers secret Concernments ; and in the first place I lead thee by the hand from familiar Examples, and the beginnings of that Art (as I find them in his Papers) to the sublime curiosities thereof, which in my opinion will be to thee a service very acceptable ; and being I have no ends beyond the kindness I owe to common capacities, and the publick, I hope to meet with a general pardon both from the great Masters of that rare Art, and from all others, and the rather, because I conceive it cannot be prejudicial to matters of State for every ordinary person to be able to conceal his own Concerns in a Character only legible to himself, and that no man in a condition where the managery of the Pen is requisite, but may have occasion to lay by something secretly to prevent intrusion into his private affairs. I mean well to all, and so consequently have the less to account for ; but however I am concluded, I shall shortly (if I live) be

Thy more useful Friend

G. B.

According to my undertaking I shall Illustrate this Art in its Originals by easie Examples (of which I lately thought my self as ignorant as any that are to learn) and from thence shew how the Authors Contrivements from time to time still rendred the same more intricate and reclusive to the Inquisitor, till Art (in the Conclusion) shut Art (in the disquisition) out a doors.

First write down the Alphabet thus
abcdefghijklmnopqrstuvwxyz

Now suppose I were to send the Watch-word (or any other secret) to a Confederate, *viz. God with us.* To change the Letters of those words into contrary Characters not to be understood (in case of interception) but by the Confederate; I agree with him upon a Clavis or Key, so called because those Letters are to be thereby first cypher'd, lockt, or infolded to distract the sense; and then to be decypher'd, unfolded or unlockt and made legible to the Confederate only, *viz.*

Let

Let the Clavis or Key be 2 3 4 5 —
which must be placed over the secret
to be cypher'd, lockt, or infolded thus

2 3 4 5 2 3 4 5 2
God wish us

2 3 4 5 2 3 4 5 2

God wish us and continued, if the
clause were longer, so long as there is a
Letter to be lockt, as will hereafter be
more perspicuous.

Then I begin and say the second Let-
ter from G (forwards towards the right
hand) is I the third from O is R the
fourth from D is H the fifth from W is
B the second from I is L and so pro-
ceeding in that order, those words will
be comprehended in these Letters
ir h b l x m a n

Then the Confederate to unlock those
Letters must place the Key over them

2 3 4 5 2 3 4 5 2

thus viz. *ir h b l x m a n* and say the se-
cond Letter from I (backwards toward
the left hand) is G the third from R is O
the 4th. from H is D &c. by which means
the intended sense is easily understood,
which without the Key cannot be legi-
ble to any but the Confederate; and so
by different Keys, and one of the fol-
lowing Cyphers a correspondence may
be maintained with all manner of per-
sons

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sons or every man may infold his own secrets thereby at pleasure.

Another Easie and familiar way thus :

Set down the Alphabet twice, first in a direct order then indirectly or in verse, viz.

*abcdefghijklmnopqrstuvwxyz
zyxwvutyrqponmlkijghfedcba*

And to lock the former words (*God with us*) take each Letter opposite to the Letters to be lockt, viz. for G an S for O an L for d a W &c. and the Letters in the words to be lockt will be comprehended in these Letters *slwdqfreg* then to unlock them for s take **G** for L an O for W a D and the words will be soon returned to their first predicament. But the Author not much applauding this method as conceiving it not sufficiently secure against an artificial scrutiny, I shall quit that and touch upon his next which is more safe and concise.

In his second Edition between the first and second Cyphers, pag. 54. he lays down an easie method for unlocking the lines affixed to those Cyphers (and some of those that follow) and I must confess my self much delighted in those Contrivements, but because they

are (by his directions there) obvious to the meaneſt capacities, I only hint that method and proceed to his next which is more ready and pleaſant, and ſhall demonſtrate the ſame by his ſixth Cypher, pag. 61. and afterwards more concifely by an excellent Cypher of his now in my cuſtody. But before I ſhew the order of the work, I muſt frame that ſixth Cypher anew, for I conceive he hath purpoſely diſordered the Letters in their ranks to perplex the inquiſitor.

z	a	b	c	d	e	f	g	h	i	k
a	b	c	d	e	f	g	h	i	k	l
b	c	d	e	f	g	h	i	k	l	m
c	d	e	f	g	h	i	k	l	m	n
d	e	f	g	h	i	k	l	m	n	o
e	f	g	h	i	k	l	m	n	o	p
f	g	h	i	k	l	m	n	o	p	q
g	h	i	k	l	m	n	o	p	q	r
h	i	k	l	m	n	o	p	q	r	s
i	k	l	m	n	o	p	q	r	s	t
k	l	m	n	o	p	q	r	s	t	u
l	m	n	o	p	q	r	s	t	u	w
m	n	o	p	q	r	s	t	u	w	x
n	o	p	q	r	s	t	u	w	x	y
o	p	q	r	s	t	u	w	x	y	z
p	q	r	s	t	u	w	x	y	z	a
q	r	s	t	u	w	x	y	z	a	b
r	s	t	u	w	x	y	z	a	b	c
s	t	u	w	x	y	z	a	b	c	d
t	u	w	x	y	z	a	b	c	d	e
u	w	x	y	z	a	b	c	d	e	f
w	x	y	z	a	b	c	d	e	f	g
x	y	z	a	b	c	d	e	f	g	h
y	z	a	b	c	d	e	f	g	h	i
z	a	b	c	d	e	f	g	h	i	k

p	q	r	s	t	u	w	x	y	z
q	r	s	t	u	w	x	y	z	a
r	s	t	u	w	x	y	z	a	b
s	t	u	w	x	y	z	a	b	c
t	u	w	x	y	z	a	b	c	d
u	w	x	y	z	a	b	c	d	e
w	x	y	z	a	b	c	d	e	f
x	y	z	a	b	c	d	e	f	g
y	z	a	b	c	d	e	f	g	h
z	a	b	c	d	e	f	g	h	i
a	b	c	d	e	f	g	h	i	k
b	c	d	e	f	g	h	i	k	l
c	d	e	f	g	h	i	k	l	m
d	e	f	g	h	i	k	l	m	n
e	f	g	h	i	k	l	m	n	o
f	g	h	i	k	l	m	n	o	p
g	h	i	k	l	m	n	o	p	q
h	i	k	l	m	n	o	p	q	r
i	k	l	m	n	o	p	q	r	s
k	l	m	n	o	p	q	r	s	t
l	m	n	o	p	q	r	s	t	u
m	n	o	p	q	r	s	t	u	w
n	o	p	q	r	s	t	u	w	x
o	p	q	r	s	t	u	w	x	y
p	q	r	s	t	u	w	x	y	z

Admit the words to be lockt the same as in the former Examples, viz. *God with us*, and the Key to be 9 7 5 8 3 6 4 1 2 and the work will stand thus
975 836412

God with us then (by the left hand square) say the 9th. from g (in the first line towards the right hand) is Q the 7th. from O is w the 5th. from D is I and so proceed, and those words will be represented in these Letters, viz. *qwimamw*, where note that the words which consist of 9 Letters are represented by 7 for w represents o and u and m represents I and H and q and i and e and a and u represents g and d and t and S which is very difficult if at all possible to be discovered if intercepted. To unlock those Letters the work must stand

975836412

thus, viz. *qwimamw* then look q in the outermost line in the square on the right hand and the 9th. Letter from that towards the left hand (in the same square) is g the 7th. from W is O the 5th. from I is d and after that order those Letters will be brought to their first predicament.

This Cypher and the Example from
thence

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thence cannot but be highly delightful
to the Learner, but that which I for-
merly mentioned to be in my Custody,
and which I shall next insert will, by the
Example illustrating the same, appear a
very rare Curiosity.

	1	2	3	4	5	6	7	8	9
a	b	c	d	e	f	g	h	i	k
b	c	d	e	f	g	h	i	k	l
c	d	e	f	g	h	i	k	l	m
d	e	f	g	h	i	k	l	m	n
e	f	g	h	i	k	l	m	n	o
f	g	h	i	k	l	m	n	o	p
g	h	i	k	l	m	n	o	p	q
h	i	k	l	m	n	o	p	q	r
i	k	l	m	n	o	p	q	r	s
k	l	m	n	o	p	q	r	s	t
l	m	n	o	p	q	r	s	t	u
m	n	o	p	q	r	s	t	u	w
n	o	p	q	r	s	t	u	w	x
o	p	q	r	s	t	u	w	x	y
p	q	r	s	t	u	w	x	y	z
q	r	s	t	u	w	x	y	z	a
r	s	t	u	w	x	y	z	a	b
s	t	u	w	x	y	z	a	b	c
t	u	w	x	y	z	a	b	c	d
u	w	x	y	z	a	b	c	d	e
w	x	y	z	a	b	c	d	e	f
x	y	z	a	b	c	d	e	f	g
y	z	a	b	c	d	e	f	g	h
z	a	b	c	d	e	f	g	h	i
a	b	c	d	e	f	g	h	i	k
	9	8	7	6	5	4	3	2	1

Under this Cypher I found the Example set down, but no Directions thereon, nor could I possibly find out the contrivement till I met with the Authors Directions in the second Edition of the following Tracts, as I formerly hinted.

918 273645191 82736 4519182
Dii laboribus omnia vendunt
nkr nhenwoceet xoumg z konwwo

The method is the same as in the last, viz. beginning at the utmost line towards the left hand, I say the 9th. from D (towards the right hand in a direct line) is N the first from I is K the 8th. from I is R which produceth the letters above specified, then to unlock them begin at the utmost line on the right hand and say the 9th. from N (towards the left hand in a direct line) is D the first from K is I the 8th. from R is I, and by that method the letters will be restored to their first sense; and I conceive he holds this Cypher sufficiently safe for infolding any secret, and proves that 50l. worth of Paper will not contain the variations in a Clavis of 8 places. You

You may now find the Clavis to the 6 Cypher (the inward sense being *Honos alis Artes*) to be 77873655295394 which is lockt and unlockt by the last method, by which the Key to the inward sense in the 7th. Cypher may be most easily found out, and the words lockt and unlockt likewise.

The 9th. Cypher I find to be a variety of another nature, and the words to be infolded by a literal Clavis (a Key of Letters) viz. thus performed
deadeadeade
homicida est the words are to be lockt are *homicida est*, and the Clavis is *dea*, look H in one of the lines opposite to the Capitals C D and the next letter under it is t, then look O in one of the lines opposite to the Capitals E f, and the next letter under it is D, do so in the rest and the words to be lockt will be represented by the letters *tdzunmyrgi*, to unlock which set the Clavis over them, and look t in one of the lines opposite to the Capitals C D and the next letter under I is H, then look D in the lines opposite to the Capitals E f and the next letter under D is O and so in the rest.

Amongst

Amongst those Papers so falling into my hands as aforesaid, are several Tables and Squares in order to distinct compliances by a Diurnal, a Bill of petty Expences, Letters of common discourse and the like, too crabb'd for my capacity; also two papers, the one containing a discourse of the power of Numbers, and the other of Secret Writing by Waters and Juices, both which are inserted as followeth.

The word **CAROLUS** may be made differently out of these Letters 35831808 times and no more

CCCCCCCCCCCC

AAAAAAAAAAAA

TTTTTTTTTTTT

OOOOOOOOOO

LLLLLLLLLLLL

IIIIIIIIII

SSSSSSSSSS

Here are 7 different letters each 12 times repeated, the rule to know the varieties is this:

Set down the Number 12 seven times, and multiply those 7 twelves continually, the product gives the varieties required.

Quod

*Quod fas sit (fors) da, sed ne post tu rape
de me ;
Sin te sic mens fert, va mi! nec fas neque
ius vis.*

This Distick is variable 114400072
7777607680000 wayes, the words
rape & neque standing alwayes as they
are. But if they change places (as they
may once) then the former number of
varieties will be doubled thus 228800
1455555215360000. Those written
in all varieties according to 6 Verses or
3 Disticks in the depth of an inch, each
Verse 3 inches long, would fill a roll of
Paper of 3 inches breadth 62444484
876533760000 feet long, whose weight
would make 99857918246056 of
our ordinary Cart loads. The length of
that roll will compass

Body of the Earth =
492769766939
The Sphere of the first times 2-
stars according to bour.
the greatest allow-
ance of it 8212

Upon the sphere of the fixed stars that
roll would make Meridians and Paral-
lels

els to every degree and $\frac{1}{3}$ of minutes besides Circles of Longitude and Latitude upon the same sphere, to every degree and $\frac{1}{10}$ of minutes, with Almicanthars and Azimuths above the Horizon to every $\frac{1}{3}$ of a degree and circles of position to every $\frac{1}{2}$ degree both above and below the Horizon.

The superficial quantity of it would cover all over the face of the Earth 3055 times the just size here of the D when she is in her *Perigæum*.

If the former roll were rolled up close together, the Semidiameter of the flat made by it would exceed the Semidiameter of the Earth by 10826 miles.

The same paper would be worth 7592043421779142 allowing 50 sheets for 6d. *id est* $8\frac{1}{4}$ sheets for a penny.

The Ink that should write the varieties would load 27159778763 Carts and would fill a pool of $1\frac{7}{100}$ foot depth as broad as the whole Mediterranean Sea, or a pool as broad as all *England*, whose depth is $42\frac{7}{100}$ feet, which Ink (according to the ordinary price of 3d. per pint) would be worth 57415772305623 *l.* or the former quantity of Ink would

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would make up a River of two miles breadth and $47\frac{1}{2}$ feet depth, whose length would compass the whole Globe of the Earth,

And if for these two words (*Rape & Neque*) were placed 4 short Monosyllables, then the former varieties would yet be made 12 times so many, namely, 26976017466662584320000 which would be the greatest number of varieties that could possibly be in one Distic.

The rest of the Discourse is in shorthand and Algebraical Characters, which I cannot make out.

* *

Invi-



Invisible Writing by Waters, &c.

Dissolve Vitriol in boiling water, and when it is clear white therein, dry the same gently at the fire (or let it dry at leisure, which it will soon do) and the writing will be invisible; when you would return it boil Galls in white wine; dip a feather in the liquor and wipe it over the writing, and it will suddenly burst out like lightning from a cloud.

*V. d. 47.
page of
the fol-
lowing
tract.*

— Dissolve Alum in water and write upon white linen or sarcenet, the writing will immediately vanish and not so much as a hair stroke appear. To return the writing dip it in water, the linen will be darkned and the Letters be legible (and invisible again when the linen is dry) or hold it to the fire and it will produce the same effect, but then the

the letters will vanish no more.

Write upon a stone with the fat of a Goat dissolved, the letters when dry will be illegible; dip the stone in distilled Vinegar and the writing will be apparent.

Pulverize Galls and Vitriol and the gum of Juniper, strew it on your paper and rub it hard thereon with a cloth, then polish it with a Boars tooth or hant of a knife, write your secret upon that paper with fair water or spittle, and the letters by degrees will appear black and legible, the sooner if you wear the paper at your brest between your shirt and doubler.

Write with the juice of Citrons, Orenge, Lemons, Onions, or any other sharp juices, hold your writing to the fire and their acrimony will be presently discovered, and will shew forth those Colours that they would upon the tree when they are ripe. If you write with the juice of sower Grapes the writing will appear black, juice of Cherries added to *Calamus* will produce a green, to Sow-bread a red, &c.

Pulverize Sal Ammoniack and dissolve it in water, when the water is

clear write therewith and the writing will be soon invisible, hold it to the fire and it will immediately grow black and legible.

Take distilled Vinegar, the white of an Egg, and Quicksilver, stir them well together, write what you would have concealed, and to return it scorch the paper upon a hot fire-shovel till it look blackish, and the writing will appear white and legible.

Soak Gum Traganth in water and therewith mingle white Lead, spread it all over your paper, write thereon with a point of Iron or Silver, and you cannot discern whats written but by holding the paper between your eye and the light of a candle.

Write upon the hidden parts of the body, viz. Back, Arms, or other Limbs with Urine or distilled Vinegar, and you may return the writing by gently rubbing the places with the ashes of burnt straw or paper.

If you make letters with Fat, Tallow, or any fatty substance, or with Gum or Milk of a Fig-tree, the dust of cole or burnt paper will return the writing.

Tithymals. Pliny saith the Milk of *Tithymals* will
do

do the like, *Ovid* confirms this, admonishing Maids in his *Arte Amandi*, how they may safely write to their sweet-hearts.

*Tuta quoq; est, fallitq; oculos è lacte recenti
Littera, carbonis polline tange, leges:
Fallit & humiduli qua fiet acumine lini,
Et feret occultas pura tabella notas.*

Write with new Milk its safe, unseen,
but read
The writing with cole-dust laid on full
right:
Moist flax will write as if that none had
been,
And Letters on your paper pass the
sight.

Dissolve Gum Arabick, or Gun Traganth in water, let the water be clear and you may write upon crystal or glass, and the ashes of burnt straw or paper will return the writing.

Rub your paper with a liquor made of Goats Suet and Turpentine dissolved, when you write lay upon that another paper smeared with fat, write thereon with an Iron or Silver point, and the
im-

impression thereof will be upon the first paper invifible till you ftrew duft thereon.

Stir the white and yolk of an Egg together that it may be liquid as Ink, write your fecret therewith, then dry the paper and write over thofe Letters (with ftraw-duft or Lamp black ground with Vineger) any common difcourfe; and when you would return the firft writing fcape off the fecond, and the firft will appear white.

With any of the former waters you may write upon an Egg, a fmoth board, or Ivory, as upon paper; and you may convey a Letter in an Egg thus. Put the Egg in fharp Vinegar three or four hours, when you find it foft open the fhell with the edge of your knife, then roll up your Letter in a fmall roll and put it in, afterwards foak the Egg in cold water and the fhell will grow hard as formerly. If you find that part of the fhell you open fubject to difcovery, mix a little lime and gum and you may ftop it neatly.

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at the Angel in Cornhill.*

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✓ Secret writing

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